

**LISTING OF CLAIMS**

1. (Currently Amended) A method of handling data packets in a Wireless Local Area Network (WLAN), comprising:

(a) contending by a plurality of nodes in the network for control of a medium over which data is to be transmitted ~~by a plurality of nodes in the network~~;

(b) establishing when control of the medium has been established by a first node of the plurality of nodes in the network by said contention in step (a), and while the first node has contention control of the medium, transmitting a first data packet from that first node ~~which has control of the medium~~, to a second node of the plurality of nodes in the network;

(c) receiving ~~at that second node~~, the transmitted first data packet at the second node while the first node remains in contention control of the medium;

(d) generating ~~at that second node~~, a combined data/acknowledgement packet by the second node in response to the first data packet which contains both an acknowledgement of receipt of the ~~said~~ first data packet by the ~~said~~ second node and also a second data packet intended for delivery to the ~~said~~ first node from the ~~said~~ second node; and

(e) transmitting the ~~said~~ combined data/acknowledgement packet from the ~~said~~ second node to the ~~said~~ first node while the first node remains in contention control of the medium.

2. (Currently Amended) The method of claim 1, further comprising:

(f) receiving, at the first node, the ~~said~~ combined data/acknowledgement packet;

(g) generating ~~at that first node~~, a further combined data/acknowledgement packet by the first node in response to the second data packet which contains both an acknowledgement of receipt of the ~~said~~ second data packet by the ~~said~~ first node and a third data packet intended for delivery to the ~~said~~ second node from the ~~said~~ first node; and

(h) transmitting the further combined data/acknowledgement packet from the ~~said~~ first node to the ~~said~~ second node while the first node remains in contention control of the medium.

3. (Currently Amended) The method of claim 2, further comprising:

(i) receiving at the second node, the ~~said~~ further combined data/acknowledgement packet;

(j) generating ~~at that second node~~, a still further combined data/acknowledgement packet by the second node which contains both an acknowledgement of receipt of the ~~said~~ third data packet by the ~~said~~ second node and a fourth data packet intended for delivery to the ~~said~~ first node from the ~~said~~ second node; and

(k) transmitting the still further combined data/acknowledgement packet from the ~~said~~ second node to the ~~said~~ first node while the first node remains in contention control of the medium.

4. (Original) The method of claim 3, further comprising: iteratively repeating steps

(f) to (h) for each of the fifth, sixth, seventh,... nth data packets.

5. (Original) The method of claim 4, wherein the iterative repetition terminates

when either a maximum time of medium control by the first node is reached, or when there are no further data packets to be transmitted.

6. (Previously Presented) The method of claim 1, wherein the step (a) of contending

for control of the medium is carried out in accordance with carrier sense multiple access with collision avoidance (CSMA/CA).

7. (Original) The method of claim 6, wherein the step (a) of contention for control

of the medium is in accordance with Enhanced Distributed Coordination Function Channel Access (EDCA).

8. (Previously Presented) The method of claim 2, further comprising, following

receipt of the, or the further, data/acknowledgement packet, the step of extracting, from that data/acknowledgement packet, the data contained therein, and extracting the acknowledgement therefrom as well.

9. (Original) The method of claim 8, wherein the step of extracting are carried out when it is determined by the receiving node either that the received packet is longer than an acknowledgement of receipt alone, or that the received packet has a header which indicates that both data and acknowledgement are contained therein.

10. (Previously Presented) The method of claim 1 wherein the step of generating a combined data/acknowledgement packet comprises either concatenating an IEEE 802.11 ACK frame with a data payload, or comprises altering a header to an IEEE 802.11 data frame to indicate that the frame carries both a data payload and an acknowledgement of receipt.

11. (Currently Amended) A method, comprising:

contending by a first node for access to a medium for transmission of a first packet to a second node;

granting the first node contention access control over ~~to~~ the medium;

communicating the first packet over the medium to the second node during the contention access control granted to the first node;

receiving the first packet by the second node; and

sending a second packet by the second node over the medium to the first node while the first node retains ~~during the~~ contention access control over the medium ~~granted to the first node~~, the second packet comprising a combined data/acknowledgement packet which contains both an acknowledgement of receipt of the first packet by the second node and also data intended for delivery to the first node.

12. (Currently Amended) The method of claim 11, further comprising:

receiving the combined data/acknowledgement packet by the first node; and

sending a third packet by the first node over the medium to the second node while the first node retains ~~during the~~ contention access control over the medium ~~granted to the first node~~, the third packet comprising a further combined data/acknowledgement packet which contains both an acknowledgement of receipt of the second packet by the first node and also data intended for delivery to the second node.

13. (Previously Presented) The method of claim 11, wherein contending comprises contending for access in accordance with carrier sense multiple access with collision avoidance (CSMA/CA) protocol.

14. (Previously Presented) The method of claim 11, wherein contending comprises contending for access in accordance with Enhanced Distributed Coordination Function Channel Access (EDCA) protocol.

15. (Previously Presented) The method of claim 11 wherein the combined data/acknowledgement packet is an ACK frame concatenated with a data payload.

16. (Previously Presented) The method of claim 11 wherein the combined data/acknowledgement packet is a data frame having a header altered to indicate that the frame carries both a data payload and an acknowledgement of receipt.

17. (Currently Amended) A method, comprising:

engaging by a first node in a contention mode access process with respect to a shared communications medium;

receiving by the first node of a granted contention control of access to the communications medium;

communicating a first packet over the communications medium to a second node during the granted contention ~~access~~ control given to the first node;

retaining by the first node the granted contention access control of the communications medium;

receiving the first packet by the second node; and

communicating by the second node a second packet over the communications medium over the medium while the first node retains during the granted contention access control of the communications medium, the second packet comprising a combined data/acknowledgement packet which contains both an acknowledgement of receipt of the first packet by the second node and also data intended for delivery to the first node.

18. (Previously Presented) The method of claim 17, wherein engaging comprises contending for access in accordance with carrier sense multiple access with collision avoidance (CSMA/CA) protocol.

19. (Previously Presented) The method of claim 17, wherein engaging comprises contending for access in accordance with Enhanced Distributed Coordination Function Channel Access (EDCA) protocol.

20. (Currently Amended) The method of claim 17 further comprising exchanging combined data/acknowledgement packets between the first and second nodes during the granted contention access given to the first node until a maximum time of the granted contention access given granted to the first node expires.